

The rains and snows of Mount Vernon, Iowa, 1936-37—Continued

POUNDS PER ACRE  
[226,875 pounds per acre=1 inch]

No.	Date 1936-37	Precipitation		Chlo- rine	Free NH <sup>3</sup>	Alb. NH <sup>3</sup>	N in nitrate	N in nitrite	Sul- phate
		Amount	Kind						
		Inches							
1	June 14	0.12	Rain	0.96	0.017	0.01	0.23	0.003	0.00001
2	June 16	.40	do	.32	.025	.04	.135	.0014	.00003
3	Oct. 20	.33	do	.163	.032	.015	.07	.0009	.00002
4	Nov. 1	.80	do	.92	.083	.11	.03	.0037	.00
5	Nov. 2	.40	do	.319	.029	.041	.009	.0027	.00004
6	Nov. 8	2.00	Snow	.081	.028	.015	.005	.001	.00001
7	Dec. 5	6.00	do	.81	.04	.046	.114	.0023	Trace
8	Dec. 26	.75	Rain	.6	.023	.085	.15	.005	.00
9	Dec. 30	.85	do	.63	.077	.106	.193	.0077	.00
10	Jan. 2	.40	do	.33	.0073	.033	.094	.0018	Trace
11	Jan. 6	.20	do	.135	.0091	.017	.057	.0015	.0023
12	Jan. 8	6.00	Snow	.384	.0063	.045	.09	.0011	.00
13	Jan. 20	.50	Rain	.0319	.013	.051	.091	.022	.00007
14	Jan. 30	.75	do	.68	.010	.068	.15	.0026	.002
15	Feb. 15	3.00	Snow	.20	.020	.020	.086	.001	Trace
16	Feb. 17	3.00	do	.57	.016	.024	.114	.0009	.0001
17	Feb. 19	.33	Rain	.86	.0015	.038	.129	.00015	.0002
18	Feb. 20	1.00	do	.79	.0127	.098	.227	.0041	.0002
19	Mar. 4	.67	do	.61	.0102	.0612	.206	.0034	.00
20	Mar. 20	4.00	Snow	.27	.0061	.032	.17	.0023	.0003
21	Mar. 22	.10	Rain	.08	.005	.01	.05	.012	.04
22	Mar. 24	.60	do	.05	.028	.056	.084	.0035	.0001

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		Amount	Kind						
		Inches							
23	Apr. 2	4.00	Snow	0.227	0.0082	0.0034	0.038	0.0015	0.0006
24	Apr. 3	1.00	Rain	1.59	.0308	.1021	.0908	.0045	.0020
25	Apr. 5	.30	do	.22	.017	.014	.028	.0014	.0005
26	Apr. 7	.25	do	.20	.023	.026	.0342	.0010	.0003
27	Apr. 15	.17	do	.054	.018	.0076	.0029	.002	.0002
28	Apr. 21	.80	do	1.278	.0756	.063	.126	.0072	.0008
29	Apr. 24	.20	do	.158	.0158	.0216	.0338	.0025	.0005
30	Apr. 25	.15	do	.136	.0122	.0068	.017	.0012	.0002
31	Apr. 28	.20	do	.13	.006	.02	.0315	.0024	.0002
32	Apr. 29	.60	do	.298	.0336	.0616	.168	.005	.0001
33	May 2	1.00	do	.0322	.0908	.0726	.00681	.0091	.0002
34	May 3	.30	do	.079	.0136	.0272	.0476	.0019	.00
35	May 4	.33	do	.0567	.0211	.024	.0302	.0034	.0003
36	May 11	.60	do	.374	.0435	.0272	.0952	.0068	.0009
37	May 15	.20	do	.032	.0145	.011	.036	.0023	.0002
38	May 18	.20	do	.09	.0158	.0108	.0495	.0029	.0003
39	May 20	.33	do	.0684	.0003	.0319	.0038	.0037	.0002
40	May 27	1.25	do	.1955	.0386	.0567	.2141	.021	.0006
41	June 2	.17	do	.1349	.0152	.01596	.0258	.0027	.0001
42	June 5	.38	do	.219	.0262	.0255	.0474	.0029	.00008

## NOTES AND REVIEWS

HANN-SÜRING. *Lehrbuch der Meteorologie*. 5te Aufl. Erste Lieferung. Leipzig, 1937.

This initial section of a new edition of Hann comprises pages 1-96 inclusive, and covers roughly the same ground as pages 1-47 and 780-795 of the fourth edition, which was completed in 1926. Extensive changes from the previous edition have been made: The division of the material into parts, chapters, etc., has been altered; much of the material has been rearranged and rewritten; and many additions have been made. References to literature are now collected at the ends of the sections, instead of being given in footnotes.

The first section, on the atmosphere in general, was prepared by F. W. Paul Götz. It includes a summary of our present knowledge of the phenomena and physical conditions in the extreme upper atmosphere—chemical composition, ozone distribution, ionosphere, etc.

The second section is occupied with the subject of solar, sky, and terrestrial radiation, insolation, and atmospheric absorption and turbidity. The *Lieferung* also includes the opening part of the third section, on temperature, and contains the discussion of the mathematical treatment of periodic phenomena that was placed in VI. Buch in previous editions.—*Edgar W. Woolard.*

## BIBLIOGRAPHY

[RICHMOND T. ZOCH, in Charge of Library]

By AMY D. PUTNAM

## RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Alling, Jeremiah.

A register of the weather, or An account of the several rains, snow-storms, depth of each snow,—hail and thunder . . . for the last twenty-five years, ending March 31, 1810. From observations, taken most of the time in Hamden, near New Haven, in Connecticut. New Haven. 1810. 84 p. 23½ cm. (Pages 81 to 84 carry register to March 1811.)

Burkholder, Paul Rufus, & Johnston, Earl S.

Inactivation of plant growth substance by light (with two plates). Wash., D. C. 1937. 14 p. illus., pls. 24½ cm. (Smithsonian miscellaneous collections. v. 95, no. 20.) Publication 3403. Running title: Growth substance. "Literature cited": p. 13-14.

Clapp, Earle Hart.

The major range problems and their solution. Résumé of a report prepared in response to Senate resolution 289, together with letters of transmittal, table of contents, etc. From "The Western range." By the Forest Service, U. S. Dept. of Agriculture. Wash., D. C. 1936. xvi, 69 p. maps, diags. 23 cm. ([U. S. 74th Cong., 2d sess.] Senate document no. 199. Separate no. 1.)

Dedebant, Georges.

Manuel de météorologie du pilote. Paris. [1936.] 192 p. illus., pls., map, fold. charts, facsim., diags. form. 24½ cm. At head of title: G. Dedebant . . . A. Viaut.

Gavett, George Irving.

A first course in statistical method. 2d ed. New York & London. 1937. ix, 400 p. illus., tabs., diags. 23½ cm.

Grangvist, Gunnar.

Översigt av isarna vintern 1935/36, Helsingfors. 1936. 47 p. figs., tabs. 24½ cm. At head of title: [Finland.] Havs-forskningsinstitutets skrift No. 108.

Humphreys, William Jackson.

Weather rambles. Baltimore. 1937. 265 p. illus., diags. 19½ cm.

Ives, [James Edmund], & Sayers, Royd Ray.

City smoke and its effects. A statement prepared for the congressional subcommittee on public health, hospitals, and charities. Wash., D. C. 1936. 4 p. tables. 23 cm. Reprint no. 1726 from the Public health reports, v. 51, no. 1, Jan. 3, 1936 (p. 15-18). Includes bibliographies.

Pettersen, Sverre.

Kinemathical and dynamical properties of the field of pressure with application to weather forecasting. Oslo. 1933. 92 p. diags. 31 cm. (Geofysiske publikasjoner. v. x, no. 2.) Bibliography: p. 92.

Størmer, Carl.

Measuring of aurorae with very long base lines. With 16 figures in the text and 2 plates. Oslo. 1935. 15 p. illus. (map), tables, diags. (Geofysiske publikasjoner. v. xi, no. 3.) "Utgitt for midler av Fridtjof Nansens fond."

Torok, Elmer.

Air conditioning in the home; what air conditioning includes, its advantages, the fundamental principles of design, the installation and operation of air-conditioning systems, specific examples of heating and cooling calculations, designing data, and general information of importance both to engineers and home owners. 1st ed. New York & London. [1937.] 296 p. illus., tabs., diags. 23½ cm.